## CLAIMS

1. A method for operating a speech recognition system, in which a program-controlled recognizer (1) performs the steps of:

dissecting a speech signal into frames and computing any kind of feature vector for each frame,

labelling frames by characters or groups of them yielding a plurality of labels per phoneme,

decoding said labels according a predetermined acoustic model to construct one or more words or fragments of a word,

in which method a plurality of recognizers are accessible to be activated for speech recognition, and are combined in order to balance the results of speech recognition done by a single recognizer, characterized by the steps of:

- a) collecting (210, 220, 230, 240) selection base data characterizing speech recognition boundary conditions with sensor means (5),
- b) using (260) program-controlled arbiter means (6) for evaluating the collected data
- c) selecting (290) the best suited recognizer or a combination thereof out of the plurality of available recognizers according to said evaluation.
- 2. The method according to claim 1, in which said sensor means (5) is one or more of: a decision logic, including software program, physical sensors or a combination of them.
- 3. The method according to claim 1, further comprising the steps of:
  - a) processing (260) a physical sensor (5) output in a

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decision logic implementing one or more of: statistical tests, decision trees, fuzzy membership functions, b) returning (270) from said process a confidence value to be used in the sensor select/ combine decision.

- 4. The method according to claim 1, in which selection base data which have led to a recognizer select decision, is stored in a database for a repeated fast access (250) thereof in order to obtain a fast selection of recognizers.
- 5. The method according to claim 1, further comprising the step of: selecting (290) the number and/or combination of recognizers dependent (280) of the current processor load.
- 6. The method according to claim 1, further comprising the step of: storing the mapping rule (7) how one acoustic model is transformed to another one, instead of storing a plurality of models themselves.
- 7. A computer system having means for performing the steps of a method according to one of the preceding claims 1 to 6.
- 8. A computer program for execution in a data processing system comprising computer program code portions for performing respective steps of the method according to anyone of the preceding claims 1 to 6, when said computer program code portions are executed on a computer.

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9. A computer program product stored on a computer usable medium comprising computer readable program means for causing a computer to perform the method of anyone of the claims 1 to 6, when said computer program product is executed on a computer.